	Application No.	Applicant(s)
Notice of Allowability	10/707 021	ZHAO ET AL
	10/707,031 Examiner	ZHAO ET AL. Art Unit
	01.11. 01.01.01.01.01.01.01	
	Chih-Cheng Glen Kao	2882
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>2/16/07</u> .		
2. The allowed claim(s) is/are <u>7-20</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
` 1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	- -	
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da	
3. Information Disclosure Statements (PTO/SB/08),	7. 🛭 Examiner's Amendr	nent/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

2. The application has been amended as follows:

In claim 7, line 9, replace "sonogram" with --sinogram--.

In claim 11, line 7, delete "and".

In claim 19, line 10, delete "and".

Reasons for Allowance

3. Claims 7-20 are allowed. The following is an examiner's statement of reasons for

allowance.

4. Regarding claim 7, prior art fails to disclose or fairly suggest a method for implementing

an iterative reconstruction of a computed tomography (CT) image, the method including:

constraining a reconstructed image at each successive iteration by utilizing prior outer edge

information obtained from a modality in addition to CT, and transforming said constrained

reconstructed image to a projection domain so as to generate a calculated sinogram, in

combination with all the limitations in the claim. Claims 8-10 are allowed by virtue of their

dependency.

- 5. Regarding claim 11, prior art fails to disclose or fairly suggest a method for implementing an iterative reconstruction of a computed tomography (CT) image, the method including: constraining a reconstructed image at each successive iteration utilizing prior outer edge information obtained from a modality in addition to CT and transforming said constrained reconstructed image to a projection domain so as to generate a calculated sinogram, in combination with all the limitations in the claim. Claims 12-18 are allowed by virtue of their dependency.
- 6. Regarding claim 19, prior art fails to disclose or fairly suggest a storage medium, including instructions for causing a computer to implement a method, the method further comprising: modifying a reconstructed image at each successive iteration by utilizing prior outer edge information obtained from a modality in addition to CT, and transforming said modified, reconstructed image to a projection domain so as to generate a calculated sinogram, in combination with all the limitations in the claim.
- 7. Regarding claim 20, prior art fails to disclose or fairly suggest a computed tomography (CT) reconstruction method, the method including: implementing an iterative image reconstruction process for CT metrology of an object, wherein said iterative reconstruction process utilizes prior outer edge information at each successive iteration obtained from a modality in addition to CT, in combination with all the limitations in the claim.

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8. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chih-Cheng Glen Kao whose telephone number is (571) 272-

2492. The examiner can normally be reached on M - F (9 am to 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EDWARD J. GLICK SUPERVISORY PATENT EXAMINER

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